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## ENGINEERING FACULTY

## e - Newsletter

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## INTERNATIONAL DIGITAL TRANSFORMATION CONFERENCE

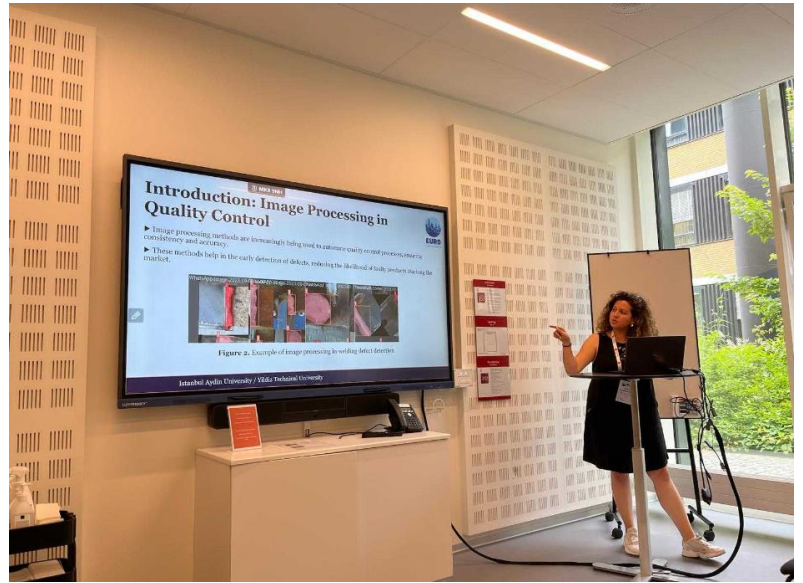
Dr. Abdulkader ALWER participated as a certified digital transformation expert at the International Digital Transformation Conference held in Istanbul between 4-6 June 2024 as the opening speaker.





## 33RD EUROPEAN CONFERENCE ON OPERATIONAL RESEARCH (EURO 2024)

Melisa Çalışkan Demir, Research Assistant at the Department of Industrial Engineering, presented her paper titled "Ensemble of YOLO Networks for Welding Detection" at the 33rd European Conference on Operational Research (EURO 2024) held at the Technical University of Denmark, Copenhagen between June 30 and July 3, 2024. She also served as the session chair at the "Hybrid Approaches in Deep Learning and Machine Learning" session at this conference.





## INFUS 2024

Melisa Çalışkan Demir, Research Assistant at the Department of Industrial Engineering, presented her full-text paper titled "Decomposed Fuzzy AHP Integrated Quality Function Deployment Methodology for Disaster Process in Turkey" at the 6th International Conference on Intelligent and Fuzzy Systems (INFUS 2024), hosted by Çanakkale 18 Mart University together with Istanbul Technical University, between July 16-18, 2024. In addition, our research assistant, who was in the organizing committee of this conference, served as session chair in the sessions titled "Neural Networks", "Applications", "Fuzzy Sets & Extensions".





### LATEST ACADEMIC PUBLICATIONS

#### **Prof. Dr. Abdulhadi BAYKAL**

Almessiere MA, Algarou NA, Slimani Y, Klygach DS, Baykal A, Korkmaz AD, et al. Structure, magnetic, and electrodynamic properties of SrIn<sub>x</sub>Fe<sub>12-x</sub>O<sub>4</sub>/Ni<sub>0.5</sub>Zn<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub> composites at low temperature. J Am Ceram Soc. 2024;107:4936–48. <https://doi.org/10.1111/jace.19798>

B. Ünal, M.A. Almessiere, A. Baykal, Y. Slimani, M.A. Gondal, N. Kian-Pour, Sagar E. Shirsath, A. Manikandan, U. Baig, Comprehensive analysis of Ni<sub>0.4</sub>Cu<sub>0.2</sub>Zn<sub>0.4</sub>Fe<sub>2-4x</sub>Sn<sub>3x</sub>O<sub>4</sub> nanospinel ferrites: Structural, electrical, and dielectric characterization through advanced techniques, Ceramics International, Volume 50, Issue 17, Part B, 2024, Pages 30670-30682, ISSN 0272-8842,

#### **Prof. Dr. Rafet AKDENİZ**

Detection and Classification of Femoral Neck Fracture using YOLOv8, Mousab Abibi Abdi, Rafet Akdeniz, International Research Journal of Engineering and Technology, July 2024

#### **Prof. Dr. Zafer ASLAN**

İklim Değişikliği ve Su Yönetiminde Yapay Zekâ Uygulamaları, Su yönetiminde yapay zekâ algoritmalarının kullanımı” bilimsel eğitimi programı 10-14 Haziran, 2024 Ankara Üniversitesi

Dalgacık dönüşümü (Wavelet) Algoritmaları ve Uygulama Alanları, Su yönetiminde yapay zekâ algoritmalarının kullanımı” bilimsel eğitimi programı 10-14 Haziran, 2024 Ankara üniversitesi

#### **Assoc. Prof. Dr. Hasan Volkan ORAL**

Hasan SAYGIN, Hasan Volkan ORAL, Acting Innovation Through Efficient Solutions for a Sustainable Future, Springer, Circular Economy and Sustainable Development

#### **Assist. Prof. Dr. Elif ÇAKIR**

Çakır, E., Bekiroğlu, H., Göker, B., & Sağdıç, O. (2024). Effect of Spirulina Platensis on Textural, Sensory and Some Physicochemical Characteristics in Gluten-free Functional Biscuit Production. Çukurova Tarım ve Gıda Bilimleri Dergisi, 39(1), 82-96.



### **Assist. Prof. Dr. Bilal ÖZTÜRK**

Mohanty, Niharika et al. 'Optimized Clustering-based Fusion for Skin Lesion Image Classification: Leveraging Marine Predators Algorithm'. 1 Jan. 2024 : 1 – 26.

### **Assist. Prof. Dr. Mahmut Esad ERGİN**

ERGİN, M. E. (2024). The Effects of the COVID-19 Pandemic on the Modal Shifting Utilising a Latent Class Choice Model with Covariates. *Promet - Traffic&Transportation*, 36(3), 399–414. <https://doi.org/10.7307/ptt.v36i3.470>

### **Assist. Prof. Dr. Meral YILDIRIM-YALÇIN**

Ozcan, Y., Kurt, A., Yildirim-Yalcin, M., & Toker, O. S. (2024). Development and structural characterisation of gelatin-based sustainable food packaging from turkey (Meleagris gallopavo) skin by-product. *International Journal of Food Science & Technology*.

Rostamabadi, H., Yildirim-Yalcin, M., Demirkesen, I., Toker, O. S., Colussia, R., do Nascimento, L. Á., ... & Falsafi, S. R. (2024). Improving physicochemical and nutritional attributes of rice starch through green modification techniques. *Food Chemistry*, 140212.

### **Assist. Prof. Dr. Rabia Nur ÖNDEŞ**

Öndeş, R.N. Research Trends in STEM Clubs: A Content Analysis. *Int J of Sci and Math Educ* (2024). <https://doi.org/10.1007/s10763-024-10477-z>

### **Assist. Prof. Dr. Süleyman ŞİMŞEK**

Production of biodiesel from wheat oil by transesterification method, *International Gelenekten Geleceğe Scientific Studies Conference*

Use of Hydrogen as Secondary Fuel in Internal Combustion Engines: A approach on combustion, performance and emissions, Süleyman ŞİMŞEK, Muhammed UÇUM